

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SG2005/000061

A. CLASSIFICATION OF SUBJECT MATTER																						
Int. Cl.?: H01L 33/00																						
According to International Patent Classification (IPC) or to both national classification and IPC																						
B. FIELDS SEARCHED																						
Minimum documentation searched (classification system followed by classification symbols)																						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched																						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI and JAPIO: LED, light emitting diode, H01L 33/-, reflect, layer, film, contact, electrode, ohmic, reflect, conduct, metal, epilayer, epitaxial, roughen, remove, texture																						
C. DOCUMENTS CONSIDERED TO BE RELEVANT																						
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.																				
A	WO 2001/047039 A (LUMILEDS LIGHTING US LLC) 28 June 2001																					
A	US 6 627 921 B (WONG et al) 30 September 2003																					
E,A	US 6 821 804 B (THIBEAULT et al) 23 November 2004																					
E,A	WO 2004/102686 A (CREE INC) 25 November 2004																					
A	Patent Abstracts of Japan, JP 2001-168387 A (TOYODA GOSEI CO LTD) 22 June 2001																					
<input type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex																						
<p>* Special categories of cited documents:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">"A"</td> <td>document defining the general state of the art which is not considered to be of particular relevance</td> <td style="width: 15%;">"T"</td> <td>later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"E"</td> <td>earlier application or patent but published on or after the international filing date</td> <td>"X"</td> <td>document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L"</td> <td>document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y"</td> <td>document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O"</td> <td>document referring to an oral disclosure, use, exhibition or other means</td> <td>"&"</td> <td>document member of the same patent family</td> </tr> <tr> <td>"P"</td> <td>document published prior to the international filing date but later than the priority date claimed</td> <td></td> <td></td> </tr> </table>			"A"	document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	"E"	earlier application or patent but published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family	"P"	document published prior to the international filing date but later than the priority date claimed		
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"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art																			
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"P"	document published prior to the international filing date but later than the priority date claimed																					
Date of the actual completion of the international search 9 May 2005	Date of mailing of the international search report 12 MAY 2005																					
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE, PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized officer S. T. PRING Telephone No : (02) 6283 2210																					

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/SG2005/000061

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member				
WO	2001/47039	AU	27389/01	DE	102 13 701	EP	1 161 772
		JP	2001-237458	JP	2002-335014	US	6 514 782
		US	6 573 537				
US	6 627 921	JP	2002076523	US	6 562 648	US	2003122141
US	6 821 804	AU	17905/01	AU	41391/01	CA	2 393 007
		CA	2393081	CN	1402880	CN	1423842
		EP	1 234 334	EP	1 234 344	US	6 410 942
		US	6 657 236	US	2004041164	WO	2001/41219
		WO	2001/41225				
WO	2004/102686	US	2005029533				
JP	2001-168387	JP	2001-168386	US	6 531 719	US	6 623 998
		US	2001050376	US	2003085411		

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX